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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,124	01/28/2004	Koichi Tamura	045054-0157	2246
22428 FOLEY AND	7590 11/07/200 LARDNER LLP	8	EXAMINER	
SUITE 500 3000 K STREET NW WASHINGTON, DC 20007		BRANDT, CHRISTOPHER M		
			ART UNIT	PAPER NUMBER
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			MAIL DATE	DELIVERY MODE
			11/07/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Period for Reply
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1:136(a). Inno event, however, may a reply be timely filled and the SX (6) MONTHS from the making date of this communication. The state of the communication of the SX (6) MONTHS from the making date of this communication.  Failure to reply within the set or extended period for reply with by attack, cause the application to become AMMONDED (38 LOS, 6; 133). Any reply received by the Office later than three months after the making date of this communication, even if timely filed, may reduce any earned pattern term adjustment. See 37 CFR 1:74(b).
Status
1) Responsive to communication(s) filed on <u>08 August 2008</u> .
2a) This action is <b>FINAL</b> . 2b) This action is non-final.
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims
4) Claim(s) 1-24 is/are pending in the application.
4a) Of the above claim(s) is/are withdrawn from consideration.
5) Claim(s) is/are allowed.
6)⊠ Claim(s) <u>1-24</u> is/are rejected.
7) Claim(s) is/are objected to.
8) Claim(s) are subject to restriction and/or election requirement.
Application Papers
9) The specification is objected to by the Examiner.
10)⊠ The drawing(s) filed on <u>28 January 2008</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>
<ol><li>Certified copies of the priority documents have been received in Application No</li></ol>
3. Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
Attachment(s)

Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PT-9) 3) Notice of Draftsperson's Patent Drawing Review (PT-9) 4 Information 7 Sizobaser Citatement(s) (PTC/95/08) Paper No(s)/Mail Date 7/8/08.	4)   Interview Summary (PTO-413)   Paper Nots/Mail Date.	
S. Patent and Trademark Office		

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#### DETAILED ACTION

## Information Disclosure Statement

The information disclosure statement submitted July 8, 2008 has been considered by the examiner and made of record in the application file.

### Response to Amendment

This Action is in response to applicant's arguments filed on August 8, 2008. Claims 1-24 are still currently pending in the present application.

### Response to Arguments

Applicant's arguments with respect to claims 1-24 have been considered but are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.

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 Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1, 2, 5, 7, 8, 11, 13, 14, 17, and 19, 20, and 23 are rejected under 35 USC 103(a) as being unpatentable over Jonsson (US PGPUB 2005/0271122 A1) in view of Miya et al. (US Patent 6,721,367 B1, hereinafter Miya).

Consider claim 1 (and similarly applied to claims 7, 13, and 19). Jonsson discloses path searching circuit employed in a WCDMA communication system comprising (paragraph 27):

a weighing controlling section to monitor a change of a power level of a sample of each of two or more delay profiles to be used in same power adding processing in delay profile calculation for path search processes and to assign weight to a power level of a specified sample according to a result from the monitoring (paragraph 71, read as the path-searcher 11 of the receiver 10 is run to derive the current power delay profile. The delay powers received during the current path-searcher activation are first selected with the largest powers. Each selected power is ranked and given a ranking weight. In addition, the contribution of delay number 4 is added to the power delay profile discrepancy variable).

Although Jonsson discloses the claimed invention he fails to explicitly teach that the invention is employed in a CDMA communication system and the exercising of a weighting control where a judgment as to whether said weighting control is exercised on a specified sample depends upon a number of sample of a candidate for said weighting control.

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However, Miya discloses a CDMA communication system and the exercising of a weighting control where a judgment as to whether said weighting control is exercised on a specified sample depends upon a number of sample of a candidate for said weighting control (column 2 lines 22-24, column 11 lines 43-48, read as selecting two weighting factors of path A and path B when both have equivalent levels of power. The delay profiles are read as the samples since Miya teaches that the weighting factor selection circuit switch a weighting factor according to a change in the delay profiles).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated the teachings of Miya into the circuit of Jonsson in order to allow transmission with array antennas with an optimal communication quality all the time and to allow detection of a new timing while transmitting both directivities when the switching of transmission is controlled (column 11 lines 48-53).

Consider claims 2 and as applied to claim 1 (and similarly to claims 8, 14, and 20).

Jonsson discloses the method wherein said weighing controlling section saves a sample whose power level exceeds a power threshold value as said candidate for said weighing control (paragraph 71).

Consider claim 5 and as applied to claim 1 (and similarly applied to claims 11, 17, and 23). Jonsson and Miya disclose wherein said weight assigned to said power level of said specified sample by said weighing controlling section is determined based on any one of a fixed value, a maximum power level, and an amount of a change in a power level (Miya; column 10 lines 57-67).

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Claims 3, 4, 9, 10, 15, 16, 21, and 22 are rejected under 35 USC 103(a) as being unpatentable over Jonsson (US PGPUB 2005/0271122 A1) in view of Miya et al. (US Patent 6,721,367 B1, hereinafter Miya) and further in view of Reznik et al. (US Patent 6,748,009 B2, hereinafter Reznik).

Consider claim 3 and as applied to claim 2 (and similarly to claims 9, 15, and 21).

Jonsson and Miya disclose the claimed invention but fail to explicitly teach wherein said weighing controlling section, when the number of samples of said candidate for said weighing control is 1 (one), assigns negative weight to a power level of the sample.

However, Reznik teaches wherein said weighing controlling section, when the number of samples of said candidate for said weighing control is 1 (one), assigns negative weight to a power level of the sample (column 12 line 54 – column 13 line 17, the lowest ranking is read as a negative weight).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated the teachings of Reznik into the circuit of Jonsson and Miya in order to improve a receiver for receiving wireless multi-path communication signals by measuring the tapped delay line profile and reallocate RAKE fingers whenever the delays have changed by a significant amount (abstract, column 1 lines 65-67).

Consider claim 4 and as applied to claim 2 (and similarly applied to claims 10, 16, and 22). Jonsson and Miya disclose the claimed invention but fail to explicitly teach wherein said weighing controlling section, when a number of samples of said candidate for said weighing control is two or more and when a difference in power levels among specified samples is a

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change threshold value or more, assigns negative weight to power levels of the two or more samples.

However, Reznik teaches wherein said weighing controlling section, when a number of samples of said candidate for said weighing control is two or more and when a difference in power levels among specified samples is a change threshold value or more, assigns negative weight to power levels of the two or more samples (column 12 line 54 – column 13 line 17, the lowest ranking is read as a negative weight).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated the teachings of Reznik into the circuit of Jonsson and Miya in order to improve a receiver for receiving wireless multi-path communication signals by measuring the tapped delay line profile and reallocate RAKE fingers whenever the delays have changed by a significant amount (abstract, column 1 lines 65-67).

# Allowable Subject Matter

Claims 6, 12, 18, and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claims 6 (and similarly claims 12, 18, and 24), the following is a statement of reasons for the indication of allowable subject matter: the references Jonsson, Miya, and Reznik and a thorough search in the art did not comprehensively read on the limitations recited in the claims. Specifically, wherein when a number of samples of said candidate for said weighing control is 3 (three) or more, a difference between a maximum power level and a minimum power

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level is compared with said change threshold value or a difference in power levels among samples of delay profiles existing before and after one another in terms of time is compared with said change threshold value.

#### Conclusion

Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

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P.O. Box 1450
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Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Brandt whose telephone number is (571) 270-1098. The examiner can normally be reached on 7:30a.m. to 5p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent

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Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist/customer service whose telephone number is (571) 272-

2600.

Christopher M. Brandt

C.M.B./cmb

November 4, 2008

/George Eng/

Supervisory Patent Examiner, Art Unit 2617